

Grades, Specifications & Applications

Bearing Tubes & Rings:

Steel Grade: SAE 52100, DIN 100 Cr6

Application: Inner & outer races, Angular contact ball bearings, Needle roller bearings, Cylindrical/spherical roller bearings, Self aligning bearings

Automobile Tubes:

Steel Grade: SAE 1019, 1518, 1035, 1040, SAE 4130H, SAE 4140H, SAE 8620, 20 MnCr5, 16 NiCr4 & ST-62-N.

Specifications: BS 980, DIN 2391, BS 1717, IS 1601, IS 1074, JIS Gr. 6, STK 45.

Applications: Steering columns, front & rear axle casings, tie rods, bearing races, CV cages & other annular components.

Drill Rods & Drill Tubes:

Steel Grade: High-grade carbon/alloy steel

Specifications: ASTM/ASME-DCDMA, SIS-74130-IE, BS-4019, JIS-G3465, API-5CT & 5D.

Applications: Manufacture of drill rods, drive rods, core barrels, casings, couplings & manufacture of diamond core drilling equipment.

Oil Country Tubular Goods:

Steel Grade: API 5L Grade B/X42/X46/X52/X60, NACE-MR01-75, SRL/DRL/EL, ASTM A106 Grade A/B/C, ASTM A53 Grade A/B,

Specifications: API-5L, 5CT & 5D.

Applications: Casings, tubing, line pipe, coupling stock, etc.

Tubes for General Applications:

Steel Grade: SAE 1008, 1010, 1012, 1017, 1019, 1026, 1035, 1040, 4130H, 4140H, 4142H, 8620, ST-62-N, EN8, EN16, EN19, EN24, EN31, CK15, 16NiCr4, 20MnCr5.

Specifications: BS 980, IS 3601, JIS STKM 13A, JIS STKM 16A, JIS STKM 17A, etc.

Applications: Gas cylinders, Rollers & chain links (conveyor belts), Structural tubing in cranes, bridges, platforms, Printing rollers, Flow lines, Guide rods in linear bearings, Pulley blanks.

Pressure Tubes:

Specifications: BS 3059 Part 1 & II, BS3601, BS3602, DIN17175, ASTM A-53, ASTM A-106, ASTM A-179, ASTM A-192, ASTM A-209 (TI), ASTM A-210, ASTM A-213 (T11, T12, T22).

Applications: Boilers, Heat Exchangers.

Tubes for Hydraulic Cylinders:

Steel Grade: ISMT HM1, ISMT C5, ISMT C8, ISMT HM3

Specifications: ASTM E112

Applications: Hydraulic cylinders